

WHAT IS CLAIMED IS:

1. A system comprising a server and a plurality of networks  
connected to said server,  
wherein each said network includes  
a mobile terminal that receives data and outputs the received data,  
5 a communication device that sends data received from said server to  
said mobile terminal wirelessly, and  
a detection device that detects any said mobile terminal present  
within a range communicable with said communication device, said mobile  
terminal moving between said plurality of networks, and said mobile  
10 terminal having a primary assigned network set as its home network,  
and wherein said server includes  
a communication circuit that communicates with the communication  
device and the detection device included in each said network,  
a storage circuit that is connected to said communication circuit and  
15 that stores a management table including, for each said mobile terminal,  
information specifying the network in which said mobile terminal is  
currently located that is determined based on information received from said  
detection device and information specifying said home network, and  
a control circuit that is connected to said communication circuit and  
20 said storage circuit and that receives data and information indicating the  
mobile terminal as a destination of the data, and controls, based on the  
received information indicating the mobile terminal as the destination of the  
data and the information stored in said management table, such that said  
communication circuit sends said received data to said mobile terminal as  
25 the destination thereof.

2. The network system according to claim 1,  
wherein said detection device includes  
a first transmission circuit that transmits inquiry information to  
said mobile terminal to inquire whether it is within the range communicable  
5 with said communication device,

a receiving circuit that receives in-zone information that is transmitted in response to said inquiry information by said mobile terminal that is present within the range communicable with said communication device, and

10 a second transmission circuit that is connected to said receiving circuit and that transmits to said server, first identification information specifying said mobile terminal that transmitted said in-zone information and second identification information specifying the network in which said detection device is included,

15 wherein said storage circuit includes a circuit that stores a management table including, for each mobile terminal identified by the first identification information, the second identification information received and the information specifying said home network,

20 wherein said information indicating the mobile terminal as the destination of the data is represented by the first identification information, and wherein said control circuit includes

a circuit that reads from said management table the second identification information corresponding to the first identification information received with said data,

25 a circuit that compares the read second identification information and the information specifying said home network, and

a circuit that controls, when the read second identification information and the information specifying said home network differs from each other, such that said communication circuit sends said received data to  
30 the communication device in the network identified by the read second identification information.

3. The network system according to claim 1, wherein said server further includes a connect circuit that connects to another network, and  
said server receives said data and the information indicating the mobile terminal as the destination of the data from a device connected to  
5 said another network.

4. The network system according to claim 3, wherein said another network is the Internet, and

said connect circuit includes a circuit that connects to said Internet via a public network.

5. A system comprising a server and a plurality of networks connected to said server,

wherein each said network includes

a mobile terminal that receives data and outputs the received data,

5 a communication device that sends data received from said server to said mobile terminal wirelessly, and

a detection device that detects any said mobile terminal present within a range communicable with said communication device, said mobile terminal moving between said plurality of networks, and said mobile

10 terminal having a primary assigned network set as its home network,

and wherein said server includes

communication means for communicating with the communication device and the detection device included in each said network,

15 storage means, connected to said communication means, for storing a management table including, for each said mobile terminal, information specifying the network in which said mobile terminal is currently located that is determined based on information received from said detection device and information specifying said home network, and

20 control means, connected to said communication means and said storage means, for receiving data and information indicating the mobile terminal as a destination of the data, and controlling, based on the received information indicating the mobile terminal as the destination of the data and the information stored in said management table, such that said communication means sends said received data to said mobile terminal as

25 the destination thereof.

6. The network system according to claim 5,  
wherein said detection device includes

first transmission means for transmitting inquiry information to said mobile terminal to inquire whether it is within the range communicable with said communication device,

receiving means for receiving in-zone information that is transmitted in response to said inquiry information by said mobile terminal that is present within the range communicable with said communication device, and

second transmission means, connected to said receiving means, for transmitting to said server, first identification information specifying said mobile terminal that transmitted said in-zone information and second identification information specifying the network in which said detection device is included,

wherein said storage means includes means for storing a management table including, for each mobile terminal identified by the first identification information, the second identification information received and the information specifying said home network,

wherein said information indicating the mobile terminal as the destination of the data is represented by the first identification information, and wherein said control means includes

means for reading from said management table the second identification information corresponding to the first identification information received with said data,

means for comparing the read second identification information and the information specifying said home network, and

means for controlling, when the read second identification information and the information specifying said home network differs from each other, such that said communication means sends said received data to the communication device in the network identified by the read second identification information.

7. The network system according to claim 5, wherein said server further includes connect means for connecting to another network, and said server receives said data and the information indicating the

5 mobile terminal as the destination of the data from a device connected to  
said another network.

8. The network system according to claim 7, wherein said another  
network is the Internet, and

said connect means includes means for connecting to said Internet  
via a public network.

9. A server for use in a system including the server and a plurality  
of networks connected to said server,

5 wherein each said network includes a mobile terminal that receives  
data and outputs the received data, a communication device that sends data  
received from said server to said mobile terminal wirelessly, and a detection  
device that detects any said mobile terminal present within a range  
communicable with said communication device, said mobile terminal  
moving between said plurality of networks, and said mobile terminal having  
a primary assigned network set as its home network,

10 said server comprising:

a communication circuit that communicates with the communication  
device and the detection device included in each said network;

15 a storage circuit that is connected to said communication circuit and  
that stores a management table including, for each said mobile terminal,  
information specifying the network in which said mobile terminal is  
currently located that is determined based on information received from said  
detection device and information specifying said home network; and

20 a control circuit that is connected to said communication circuit and  
said storage circuit and that receives data and information indicating the  
mobile terminal as a destination of the data, and controls, based on the  
received information indicating the mobile terminal as the destination of the  
data and the information stored in said management table, such that said  
communication circuit sends said received data to said mobile terminal as  
the destination thereof.

10. The server according to claim 9,

wherein said detection device includes a first transmission circuit that transmits inquiry information to said mobile terminal to inquire whether it is within the range communicable with said communication device, a receiving circuit that receives in-zone information that is transmitted in response to said inquiry information by said mobile terminal that is present within the range communicable with said communication device, and a second transmission circuit that is connected to said receiving circuit and that transmits to said server, first identification information specifying said mobile terminal that transmitted said in-zone information and second identification information specifying the network in which said detection device is included,

wherein said storage circuit includes a circuit that stores a management table including, for each mobile terminal identified by the first identification information, the second identification information received and the information specifying said home network,

wherein said information indicating the mobile terminal as the destination of the data is represented by the first identification information, and wherein said control circuit includes

a circuit that reads from said management table the second identification information corresponding to the first identification information received with said data,

a circuit that compares the read second identification information and the information specifying said home network, and

a circuit that controls, when the read second identification information and the information specifying said home network differs from each other, such that said communication circuit sends said received data to the communication device in the network identified by the read second identification information.

11. The server according to claim 9, further comprising a connect circuit that connects to another network, wherein

said server receives said data and the information indicating the

5 mobile terminal as the destination of the data from a device connected to  
said another network.

12. The server according to claim 11, wherein said another network  
is the Internet, and

said connect circuit includes a circuit that connects to said Internet  
via a public network.

13. A server for use in a system including the server and a plurality  
of networks connected to said server,

5 wherein each said network includes a mobile terminal that receives  
data and outputs the received data, a communication device that sends data  
received from said server to said mobile terminal wirelessly, and a detection  
device that detects any said mobile terminal present within a range  
communicable with said communication device, said mobile terminal  
moving between said plurality of networks, and said mobile terminal having  
a primary assigned network set as its home network,

10 said server comprising:

communication means for communicating with the communication  
device and the detection device included in each said network;

15 storage means, connected to said communication means, for storing  
a management table including, for each said mobile terminal, information  
specifying the network in which said mobile terminal is currently located  
that is determined based on information received from said detection device  
and information specifying said home network; and

20 control means, connected to said communication means and said  
storage means, for receiving data and information indicating the mobile  
terminal as a destination of the data, and controlling, based on the received  
information indicating the mobile terminal as the destination of the data  
and the information stored in said management table, such that said  
communication means sends said received data to said mobile terminal as  
the destination thereof.

14. The server according to claim 13,

wherein said detection device includes first transmission means for transmitting inquiry information to said mobile terminal to inquire whether it is within the range communicable with said communication device,  
5 receiving means for receiving in-zone information that is transmitted in response to said inquiry information by said mobile terminal that is present within the range communicable with said communication device, and second transmission means, connected to said receiving means, for transmitting to said server, first identification information specifying said mobile terminal  
10 that transmitted said in-zone information and second identification information specifying the network in which said detection device is included,

wherein said storage means includes means for storing a management table including, for each mobile terminal identified by the first  
15 identification information, the second identification information received and the information specifying said home network,

wherein said information indicating the mobile terminal as the destination of the data is represented by the first identification information, and wherein said control means includes

20 means for reading from said management table the second identification information corresponding to the first identification information received with said data,

means for comparing the read second identification information and the information specifying said home network, and

25 means for controlling, when the read second identification information and the information specifying said home network differs from each other, such that said communication means sends said received data to the communication device in the network identified by the read second identification information.

15. The server according to claim 13, further comprising connect means for connecting to another network, and

said server receives said data and the information indicating the

5 mobile terminal as the destination of the data from a device connected to  
said another network.

16. The server according to claim 15, wherein said another network  
is the Internet, and

said connect means includes means for connecting to said Internet  
via a public network.

17. A communication method of a server in a system including the  
server and a plurality of networks connected to said server,

5 wherein each said network includes a mobile terminal that receives  
data and outputs the received data, a communication device that sends data  
received from said server to said mobile terminal wirelessly, and a detection  
device that detects any said mobile terminal present within a range  
communicable with said communication device, said mobile terminal  
moving between said plurality of networks, and said mobile terminal having  
a primary assigned network set as its home network,

10 said communication method comprising the steps of:

storing a management table including, for each said mobile terminal,  
information specifying the network in which said mobile terminal is  
currently located that is determined based on information received from said  
detection device and information specifying said home network; and

15 receiving data and information indicating the mobile terminal as a  
destination of the data, and, based on the received information indicating  
the mobile terminal as the destination of the data and the information  
stored in said management table, sending said received data to said mobile  
terminal as the destination thereof.

18. The communication method according to claim 17,

5 wherein said detection device includes a first transmission circuit  
that transmits inquiry information to said mobile terminal to inquire  
whether it is within the range communicable with said communication  
device, a receiving circuit that receives in-zone information that is

transmitted in response to said inquiry information by said mobile terminal that is present within the range communicable with said communication device, and a second transmission circuit that is connected to said receiving circuit and that transmits to said server, first identification information specifying said mobile terminal that transmitted said in-zone information and second identification information specifying the network in which said detection device is included,

wherein said step of storing the management table includes the step of storing a management table including, for each mobile terminal identified by the first identification information, the second identification information received and the information specifying said home network,

wherein said information indicating the mobile terminal as the destination of the data is represented by the first identification information,

and wherein said step of sending said received data to said mobile terminal as the destination thereof includes the steps of

reading from said management table the second identification information corresponding to the first identification information received with said data,

comparing the read second identification information and the information specifying said home network, and

when the read second identification information and the information specifying said home network differs from each other, sending said received data to the communication device in the network identified by the read second identification information.

19. The communication method according to claim 17, wherein said server is connected to another network, and

said server receives said data and the information indicating the mobile terminal as the destination of the data from a device connected to said another network.

20. The communication method according to claim 19, wherein said another network is the Internet, and

said server is connected to said Internet via a public network.

21. A computer readable recording medium for use in recording a program for implementing a communication method of a server in a system including the server and a plurality of networks connected to said server,

5 wherein each said network includes a mobile terminal that receives data and outputs the received data, a communication device that sends data received from said server to said mobile terminal wirelessly, and a detection device that detects any said mobile terminal present within a range communicable with said communication device, said mobile terminal moving between said plurality of networks, and said mobile terminal having  
10 a primary assigned network set as its home network,

wherein said communication method comprises the steps of:

storing a management table including, for each said mobile terminal, information specifying the network in which said mobile terminal is currently located that is determined based on information received from said  
15 detection device and information specifying said home network; and

receiving data and information indicating the mobile terminal as a destination of the data, and, based on the received information indicating the mobile terminal as the destination of the data and the information stored in said management table, sending said received data to said mobile  
20 terminal as the destination thereof.

22. The recording medium according to claim 21,

wherein said detection device includes a first transmission circuit that transmits inquiry information to said mobile terminal to inquire whether it is within the range communicable with said communication  
5 device, a receiving circuit that receives in-zone information that is transmitted in response to said inquiry information by said mobile terminal that is present within the range communicable with said communication device, and a second transmission circuit that is connected to said receiving circuit and that transmits to said server, first identification information  
10 specifying said mobile terminal that transmitted said in-zone information

and second identification information specifying the network in which said detection device is included,

wherein said step of storing the management table includes the step of storing a management table including, for each mobile terminal identified  
15 by the first identification information, the second identification information received and the information specifying said home network,

wherein said information indicating the mobile terminal as the destination of the data is represented by the first identification information,

and wherein said step of sending said received data to said mobile  
20 terminal as the destination thereof includes the steps of

reading from said management table the second identification information corresponding to the first identification information received with said data,

comparing the read second identification information and the  
25 information specifying said home network, and

when the read second identification information and the information specifying said home network differs from each other, sending said received data to the communication device in the network identified by the read second identification information.

23. The recording medium according to claim 21, wherein said server is connected to another network, and

said server receives said data and the information indicating the mobile terminal as the destination of the data from a device connected to  
5 said another network.

24. The recording medium according to claim 23, wherein said another network is the Internet, and

said server is connected to said Internet via a public network.